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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/566,408

01/26/2006

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IPO-P1965

5715

3624 7590 08/26/2008

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EXAMINER

ENTEZARI, MICHELLE M

ART UNIT

PAPER NUMBER

2624

MAIL DATE

DELIVERY MODE

08/26/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

DETAILED ACTION

Election/Restrictions

Group I, claim(s) 1-13, drawn to **calculating a range** for an input image, classified in class 382, subclass 275

Group II, claim(s) 14-25, drawn to calculating a **spatial position** of an image pickup surface before distortion correction, using a predetermined formula, classified in class 382, subclass 291

Group III, claim(s) 26-27, drawn to generating a first position on a coordinate system of pixels corresponding to each pixel of a corrected image; **transforming the first position into a second position on a coordinate system in the image data before the distortion correction processing in accordance with a distortion correcting formula**; transforming the second position on the coordinate system in the image data before the distortion correction processing into a coordinate in a setting region having a coordinate system corresponding to an image pickup surface, as the reference; and generating data of the pixels of the corrected image by interpolation based on the coordinate in the setting region, classified in class 382, subclass 293.

Group IV, claim(s) 28-52, drawn **to storing a part of the image** and performing an interpolation calculation, classified in class 711, subclass 108.

Inventions are related as subcombinations. Inventions I – IV in this relationship are distinct and it can be shown that (1) the subcombinations as claimed do not require the particulars of the other subcombinations as claimed for patentability and (2) that the subcombination II has utility by itself or in other combinations (MPEP §806.05 (c)). In the instant case, subcombination I has the separate utility of calculating a range. Subcombination II has the separate utility of calculating the spatial position.

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Subcombination III has the separate utility of coordinate transformation.

Subcombination IV has the separate utility of a special memory unit for operating on unit lines.

Because these inventions are distinct as for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHELLE ENTEZARI whose telephone number is (571)270-5084. The examiner can normally be reached on M-Th, 7:30am-5pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu can be reached on (571)272-7429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michelle Entezari/
Examiner, Art Unit 2624

/Brian Q Le/
Examiner, Art Unit 2624